

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-21. (cancelled)

22. (previously presented) A self-closing valve for the dispensing of flowable media from a container having;
a curved membrane, the curvature of which is directed toward the flowable media in the closed position and which curves outwardly into a dispensing position upon pressure being generated in the container,
a support segment which holds the valve to said container,
a connecting wall arranged between said membrane and said support segment,
a slitting provided in said membrane which opens in the dispensing position, wherein said slitting is arranged such that upon the deformation of the membrane from the closed position to the dispensing position induced by the application of pressure to the container, elastic resilient forces are generated within the membrane which cause said membrane to retract from said dispensing position to said closed position upon depressurization,
said connecting wall between said support segment and said membrane is disposed with an annular section which is arranged substantially in a common plane with said support segment or on a plane which is parallel to same,
wherein the contact between the connecting wall and the membrane is configured such that substantially no or only minimal torque is transferred from said connecting wall to said membrane so that any torque transmitted from said

connecting wall to said membrane has substantially no effect on the opening and closing of said slitting; and said membrane having a constant wall thickness; and wherein an area is adjoined to said annular section of connecting wall, said area extending upwardly in curved fashion at an obtuse angle from the plane of the support segment and the annular section, away from the container interior when the valve is affixed to the container; and the upwardly curved area merges with a hinge member into the membrane so that a transition zone between the connecting wall and the membrane is configured in a hinge-like manner.

23-24. (cancelled)

25. (previously presented) A self-closing valve in accordance with claim 22 wherein said membrane and said connecting wall are configured to be substantially rotationally symmetric.

26. (cancelled)

27. (previously presented) A self-closing valve in accordance with claim 22 wherein said membrane has a peripheral wall directed substantially to the connecting wall and a contact area is formed on said wall for connecting the membrane with the connecting wall.

28. (previously presented) A self-closing valve in accordance with claim 27, wherein said contact area is formed on a middle region of said peripheral wall such that it is disclosed toward the inner curvature and, when in assembled state, away from the container interior.

29. (cancelled)

30. (previously presented) A self-closing valve in accordance with claim 22 wherein said slitting is configured such that it has one slit.

31. (cancelled)

32. (previously presented) A self-closing valve in accordance with claim 22 wherein said slitting comprises four, five or more slits which are preferably arranged so as to be star-shaped and which preferably have the same angular spacing from one another.

33. (previously presented) A self-closing valve in accordance with claim 25 wherein said slitting is configured to be rotationally symmetric to said axis of rotation.

34. (previously presented) A self-closing valve in accordance with claim 30 wherein at least one of said slits is interrupted so as to create a material bridge, whereby the length of said slit interruption is smaller than the total length of the respective slit.

35. (previously presented) A self-closing valve in accordance with claim 30 wherein at least one slit has at least two or more interruptions.

36. (previously presented) A self-closing valve in accordance with claim 22 wherein a reinforcing ring is provided which is

made from a harder synthetic material than the material of the membrane.

37. (previously presented) A self-closing valve in accordance with claim 36 wherein said reinforcing ring is configured to be rotationally symmetric around the valve and having a plurality of openings.

38. (previously presented) A self-closing valve in accordance with claim 22 wherein said valve body is made from a silicone material.

39. (previously presented) A self-closing valve in accordance with claim 22 wherein said valve body is made from a thermoplastic elastomer.

40. (previously presented) A self-closing valve in accordance with claim 22 wherein said valve is made from thermoplastic elastomer and polypropylene or from silicone and polyamide.

41. (previously presented) A self-closing valve in accordance with claim 22 wherein said membrane is configured in segmented semi-spherical form and has a substantially constant thickness.

42. (currently amended) A self-closing valve for the dispensing of flowable media from a container having;
a curved membrane, the curvature of which is directed toward the flowable media in the closed position and which curves outwardly into a dispensing position upon pressure being generated in the container,
a support segment which holds the valve to said container,

a connecting wall arranged between said membrane and said support segment,

a slitting provided in said membrane which opens in the dispensing position, wherein said slitting is arranged such that upon the deformation of the membrane from the closed position to the dispensing position induced by the application of pressure to the container, elastic resilient forces are generated within the membrane which cause said membrane to retract from said dispensing position to said closed position upon depressurization,

said connecting wall between said support segment and said membrane is disposed with an annular section which is arranged substantially in a common plane with said support segment or on a plane which is parallel to same,

wherein the contact between the connecting wall and the membrane is configured such that substantially no or only minimal torque is transferred from said connecting wall to said membrane so that any torque transmitted from said connecting wall to said membrane has substantially no effect on the opening and closing of said slitting;

said membrane having a constant wall thickness; and

wherein said slitting comprises three slits which are preferably configured so as to be star-shaped and which are preferably arranged at the same angular spacing from one another.

43. (currently amended) A self-closing valve for the dispensing of flowable media from a container having:

a curved membrane, the curvature of which is directed toward the flowable media in the closed position and which curves outwardly into a dispensing position upon pressure being generated in the container,

a support segment which holds the valve to said container,
a connecting wall arranged between said membrane and said
support segment,
a slitting provided in said membrane which opens in the
dispensing position, wherein said slitting is arranged such
that upon the deformation of the membrane from the closed
position to the dispensing position induced by the
application of pressure to the container, elastic resilient
forces are generated within the membrane which cause said
membrane to retract from said dispensing position to said
closed position upon depressurization,
said connecting wall between said support segment and said
membrane is disposed with an annular section which is
arranged substantially in a common plane with said support
segment or on a plane which is parallel to same,
wherein the contact between the connecting wall and the membrane
is configured such that substantially no or only minimal
torque is transferred from said connecting wall to said
membrane so that any torque transmitted from said
connecting wall to said membrane has substantially no
effect on the opening and closing of said slitting; and
the connecting wall is thin and non-rigid and in the transition
zone between the membrane and the connecting wall an
~~angular~~ annular protrusion projects away from the
container.